

## Delta Independent Science Board Educational Briefing Questionnaire

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Please provide short written responses to the following:

1. Program Title: CVPIA Anadromous Fish Restoration Program (AFRP)
2. Lead Agency/Department for Program: U.S. Fish and Wildlife Service
3. Brief Description of Program:

On October 30, 1992, President George Herbert Walker Bush signed into law the Reclamation Projects Authorization and Adjustment Act of 1992 (Public Law 102-575), including Title XXXIV, the Central Valley Project Improvement Act [CVPIA](#). The CVPIA directed the Secretary of the Interior to amend previous authorizations of California's Central Valley Project to:

*"include fish and wildlife protection, restoration, and mitigation as project purposes having equal priority with irrigation and domestic use and fish and wildlife enhancement as a project purpose equal to power generation."*

Section 3406(b)(1) of the CVPIA directs the Secretary of the Interior to develop and implement a program that makes all reasonable efforts to at least double natural production of anadromous fish in California's Central Valley streams on a long-term, sustainable basis. The major resulting program is known as the Anadromous Fish Restoration Program. Since 1995, the AFRP has helped implement over 195 projects to restore natural production of anadromous fish.

4. Purpose and Objectives of Program:

The goal of the AFRP, as stated in Section 3406(b)(1) of the CVPIA, is to "develop within three years of enactment and implement a program which makes all reasonable efforts to ensure that, by the year 2002, natural production of anadromous fish in Central Valley rivers and streams will be sustainable, on a long-term basis, at levels not less than twice the average levels attained during the period of 1967-1991." Section 3406(b)(1) also states that "this goal shall not apply to the San Joaquin River between Friant Dam and the Mendota Pool."

Six general objectives need to be met to achieve the program goal:

- Improve habitat for all life stages of anadromous fish through provision of flows of suitable quality, quantity, and timing, and improved physical habitat;
- Improve survival rates by reducing or eliminating entrainment of juveniles at diversions;
- Improve the opportunity for adult fish to reach their spawning habitats in a timely manner;
- Collect fish population, health, and habitat data to facilitate evaluation of restoration actions;
- Integrate habitat restoration efforts with harvest and hatchery management; and
- Involve partners in the implementation and evaluation of restoration actions.

5. Timeline for Program Objectives: Annual
6. Current Status of Program: Active

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7. Contact Information for Lead Staff of this Program:

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8. Associated Total Annual Budget for Program: FY11 \$6.070 million

9. URL, if a Website is Available: <http://www.fws.gov/stockton/afrp/>

10. How does adaptive management play a role in your program?

The AFRP will employ adaptive management to increase the effectiveness of restoration actions and to address scientific uncertainty. Adaptive management is an approach that allows resource managers to learn from past experiences through formal experiment or by altering actions based on their measured effectiveness. Monitoring programs are the foundation of the adaptive management approach. The program will continue to use the adaptive management process to design experiments that will improve management actions and inform the development of future projects.

11. Any additional information that would be helpful to understand the program:

The AFRP is one of five CVPIA programs that has been integrated with the State of California through the Department of Fish and Game's Ecosystem Restoration Program (ERP) (Record of Decision, 2000)<sup>1</sup>. To facilitate this integration, the above objectives are included in the CALFED ERP Draft Stage 1 Implementation Plan.<sup>2</sup> These objectives are also complementary to other goals and objectives listed in the Draft Stage 1 Implementation Plan and would help address the objectives of the CALFED Multi-Species Conservation Strategy<sup>3</sup> and the Biological Opinion on the Long Term Operations of the Central Valley Project and State Water Project<sup>4</sup>. The AFRP shares ERP's vision of the Single Blueprint concept which provides a unified and cooperative approach to restoration. The AFRP is committed to integrating its activities with the Ecosystem Restoration Program's actions and evaluations and using a scientifically-based adaptive management approach, consistent with the CALFED Science Program, to achieve AFRP objectives.

**Thank you very much for taking the time to respond to this questionnaire. Please return your completed questionnaire to Gina Ford ([gina.ford@deltacouncil.ca.gov](mailto:gina.ford@deltacouncil.ca.gov)) no later than October 6, 2011.**

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<sup>1</sup> Programmatic Record of Decision, CALFED Bay-Delta Program, August 28, 2000. Sacramento, CA.

<sup>2</sup> Draft Stage 1 Implementation Plan, August 2001. Ecosystem Restoration Program, CALFED Bay- Delta Program. Sacramento, CA.

<sup>3</sup> CALFED Bay-Delta Program Multi-Species Conservation Strategy. August 28, 2000. California Bay-Delta Program. Sacramento, CA.

<sup>4</sup> Biological Opinion on the Long Term Operations of the Central Valley Project and State Water Project. June 4, 2009. USBR, Sacramento, CA.